READ THIS FIRST



Model T32253/T32254 ***IMPORTANT UPDATE***

For Machines Mfd. Since 08/20 and Owner's Manual Printed 11/20

For questions or help with this product contact Tech Support at (570) 546-9663 or techsupport@grizzly.com

The following corrections have been made since the owner's manual was printed:

- The Model T32253 buffing wheel hex nuts are $\frac{1}{2}$ "-12, not $\frac{1}{2}$ "-13.
- The work light does not come pre-installed on the buffer.

Aside from this information, all other content in the owner's manual applies and MUST be read and understood for your own safety. **IMPORTANT: Keep this update with the owner's manual for future reference.**

For questions or help, contact our Tech Support at (570) 546-9663 or techsupport@grizzly.com.

Revised Specifications

Main Specifications:

Spindle

Spindle Thread Pitch12 TPI

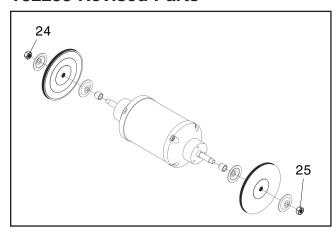
Revised Needed for Setup

Des	scription	Q ty
•	Safety Glasses (for each person)	1
•	Solvent/Cleaner	
•	Disposable Rags	1
•	Disposable Gloves	
•	Phillips Head Screwdriver #1	1
•	Open-End Wrench 3/4" (T32253)	1
•	Open-End Wrench ²⁹ / ₃₂ " (T32254)	1
•	Open-End Wrench 17mm	1
•	Electrical Tape As Need	

Revised Tools Needed for Installing/ Removing Buffing wheel

Tools Needed	Qty
Open-End Wrench 3/4" (T32253)	1
Open-End Wrench 29/32" (T32254)	1

T32253 Revised Parts



REF	PART #	DESCRIPTION
24	PT32253024	HEX NUT 1/2-12 LH
25	PT32253025	HEX NUT 1/2-12

Revised Inventory

Box	x 1 (Figure 1)	Qty
Α.	Buffer	1
G.	Work Light	1

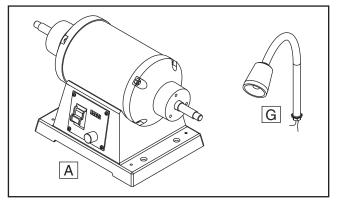


Figure 1. Revised inventory.

Installing Work Light

After assembling your buffer using the **Assembly** section on **Page 16** of the owner's manual, install the work light using the steps below.

Items Needed	Qty
Phillips Head Screwdriver #1	1
Open-End Wrench 17mm	1
Electrical Tape As N	leeded

To install work light:

1. Remove flange screw and junction box cover shown in **Figure 2**.

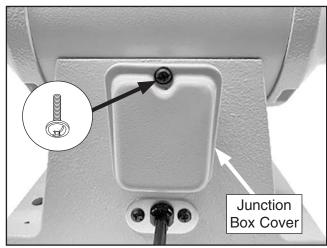


Figure 2. Location of junction box cover and flange screw.

2. Loosen wire nuts indicated in Figure 3.



Figure 3. Location of wire nuts.

- **3.** Use pre-installed hex nut, lock washer, and external tooth washer on work light to attach work light to top of junction box (see **Figure 4**).
- 4. Use wire nuts from Step 2 to connect work light wires shown in Figure 4 (refer to wiring diagrams beginning on Page 27 in owner's manual. Twist wire nuts onto their respective wires and wrap them with electrical tape so they will not come loose during operation.

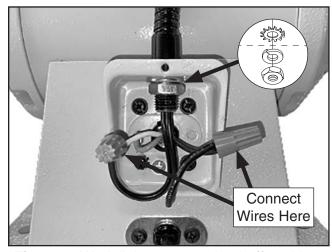


Figure 4. Work light connected to buffer wiring.

- **5.** Install junction box cover and flange screw removed in **Step 1**.
- **6.** Proceed to **Test Run** beginning on **Page 17** of owner's manual.





MODEL T32253/T32254 VARIABLE-SPEED BUFFER w/WORK LIGHT

OWNER'S MANUAL

(For models manufactured since 08/20)



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WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.
#CS21330 PRINTED IN TAIWAN



This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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INTRODUCTION

Contact Info

We stand behind our machines! If you have questions or need help, contact us with the information below. Before contacting, make sure you get the serial number and manufacture date from the machine ID label. This will help us help you faster.

Grizzly Technical Support 1815 W. Battlefield Springfield, MO 65807 Phone: (570) 546-9663 Email: techsupport@grizzly.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager P.O. Box 2069 Bellingham, WA 98227-2069 Email: manuals@grizzly.com

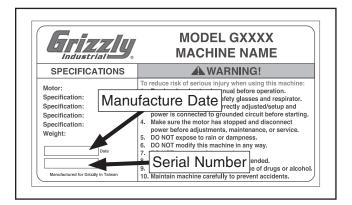
Manual Accuracy

We are proud to provide a high-quality owner's manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that sometimes the machine you receive is slightly different than shown in the manual.

If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at www.grizzly.com.

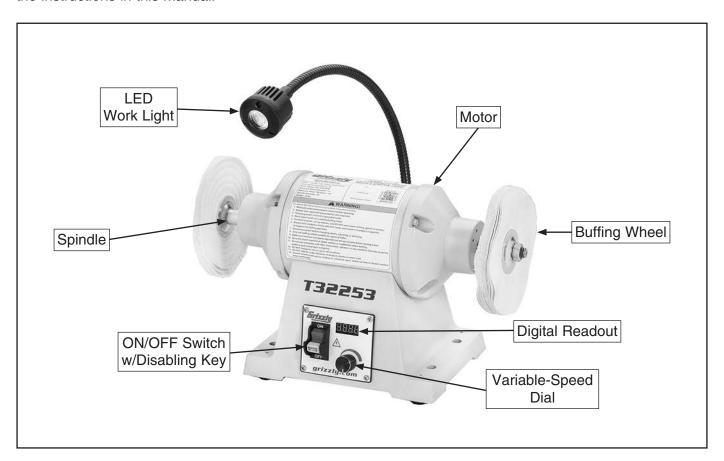
Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **Manufacture Date** and **Serial Number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.





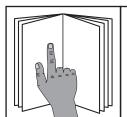
Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.





Controls & Components



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

Refer to the following figures and descriptions to become familiar with the basic controls and components of this machine. Understanding these items and how they work will help you understand the rest of the manual and minimize your risk of injury when operating this machine.

Buffing Wheel Components

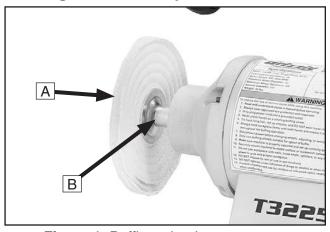


Figure 1. Buffing wheel components.

- A. Buffing Wheel: Spins to buff workpiece. Can be replaced with different buffing/polishing wheels for different operations and compounds.
- B. Spindle: Secures and spins buffing wheels. T32253 accepts wheels up to 12" in diameter with a ½" bore. T32254 accepts wheels up to 14" in diameter with a 5/8" bore.

Electrical Components

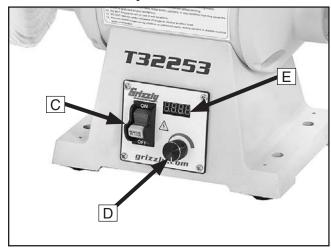


Figure 2. Control panel components.

- C. ON/OFF Switch w/Disabling Key: Turns motor ON when moved up; turns motor OFF when moved down. When key is removed, switch is disabled and machine cannot start.
- D. Variable-Speed Dial: Rotates to adjust buffing speed. Variable-speed dial must be turned fully counterclockwise for motor to start.
- E. Digital Readout: Displays spindle RPM.

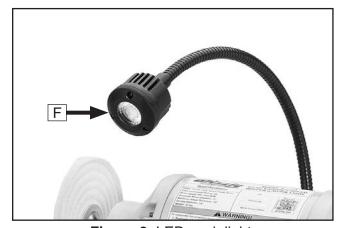


Figure 3. LED work light.

F. LED Work Light: Illuminates buffing area for better visibility. Turns ON when machine is turned ON and adjusts to desired position.





MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL T32253 1/2 HP VARIABLE-SPEED BUFFER WITH WORK LIGHT

Product Dimensions:	
Weight	
Width (side-to-side) x Depth (front-to-back) x Height	
Footprint (Length x Width)	10 x 7 in
Shipping Dimensions:	
Type	
Content	Machine
Weight	
Length x Width x Height	24 x 17 x 15 in
Electrical:	
Power Requirement	110V, Single-Phase, 60 Hz
Full-Load Current Rating	
Minimum Circuit Size	15A
Connection Type	Cord & Plug
Power Cord Included	Yes
Power Cord Length	72 in
Power Cord Gauge	18 AWG
Plug Included	Yes
Included Plug Type	
Switch Type	Toggle ON/OFF w/Disabling Key
Motors:	
Main	
Horsepower	1/2 HP
Phase	
Amps	9
Speed	
Type	
Power Transfer	
Bearings	
Main Specifications:	
Operation Info	
Buffer Type	Renchtor
Right Wheel Material	
Left Wheel Material	
Right Wheel Diameter	· · · · · · · · · · · · · · · · · · ·
Left Wheel Diameter	
Maximum Wheel Diameter	
Right Wheel Thickness	
Left Wheel Thickness	
Maximum Wheel Thickness	
Wheel Bore	
MILEGI DOLE	



Spindle

Spindle SpeedSpindle DiameterSpindle Thread Pitch	900 - 3600 RPM
Spindle Diameter	1/2 in.
Spindle Thread Pitch	11 TPI
Spindle Length (Usable)	11/16 in.
Right Spindle Thread Direction	Right-Handed
Left Spindle Thread Direction	Left-Handed
Included Spacers	9/16 in.
Construction	
Base	
Work Rest	Steel
Lamp	LED
Paint/Finish	Powder Coated
Other Specifications:	
•	
Country of Origin	
Warranty	1 Year

Features:

Spindle Speed Digital Readout Variable-Speed Dial Adjustable LED Work Light Cast Iron Base





MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL T32254 1 HP VARIABLE-SPEED BUFFER WITH WORK LIGHT

Product Dimensions:	
Weight	
Width (side-to-side) x Depth (front-to-back) x Height	
Footprint (Length x Width)	10 x 7-1/2 in
Shipping Dimensions:	
Type	Cardboard
Content	Machine
Weight	47 lbs
Length x Width x Height	24 x 17 x 15 in
Electrical:	
Power Requirement	110V, Single-Phase, 60 Hz
Full-Load Current Rating	6 <i>A</i>
Minimum Circuit Size	15A
Connection Type	Cord & Pluç
Power Cord Included	Yes
Power Cord Length	
Power Cord Gauge	16 AWG
Plug Included	Yes
Included Plug Type	NEMA 5-15
Switch Type	Toggle ON/OFF w/Disabling Key
Motors:	
Main	
Horsepower	1 HF
Phase	Single-Phase
Amps	6 <i>A</i>
Speed	900 - 3600 RPM
Type	
71	Inductior
Power Transfer	
* 1	Direc
Power Transfer Bearings	Direc
Power Transfer Bearings	Direc
Power Transfer Bearings Main Specifications: Operation Info	
Power Transfer Bearings Main Specifications: Operation Info Buffer Type	DirecShielded & Permanently Lubricated
Power Transfer Bearings Main Specifications: Operation Info Buffer Type Right Wheel Material	Directory Shielded & Permanently Lubricated Benchtory Loose Muslir
Power Transfer Bearings Main Specifications: Operation Info Buffer Type	Directon Dir
Power Transfer Bearings Main Specifications: Operation Info Buffer Type Right Wheel Material Left Wheel Material Right Wheel Diameter	Directors Direct
Power Transfer Bearings Main Specifications: Operation Info Buffer Type	Direct Shielded & Permanently Lubricated Benchtop Loose Muslin 40-Ply Soft Muslin 8 in 8 in
Power Transfer Bearings Main Specifications: Operation Info Buffer Type Right Wheel Material Left Wheel Material Right Wheel Diameter Left Wheel Diameter Maximum Wheel Diameter	Directors Shielded & Permanently Lubricated Benchtop Loose Muslin 40-Ply Soft Muslin 8 in 8 in 14 in 14 in
Power Transfer Bearings	Directors Shielded & Permanently Lubricated Benchtop Loose Muslir 40-Ply Soft Muslir 8 in 8 in 14 in
Power Transfer Bearings	Directors Shielded & Permanently Lubricated Benchtop Loose Muslir 40-Ply Soft Muslir 8 in 8 in 14 in 1/4 in
Power Transfer Bearings	Directors Shielded & Permanently Lubricated Benchtop Loose Muslir 40-Ply Soft Muslir 8 in 14 in 1/4 in



Spindle

Spindle Speed	900 - 3600 RPM
Spindle Diameter	5/8 in.
Spindle Thread Pitch	11 TPI
Spindle Length (Usable)	1 in.
Right Spindle Thread Direction	Right-Handed
Left Spindle Thread Direction	Left-Handed
Included Spacers	5/8 in.
Construction	
Base	
Lamp	LED
Paint/Finish	Powder Coated
er Specifications:	

Other Specifications:

Country of Origin	Taiwan
Warranty	
Serial Number Location	
ISO 9001 Factory	Yes

Features:

Spindle Speed Digital Readout Variable-Speed Dial Adjustable LED Work Light Cast Iron Base



SECTION 1: SAFETY

For Your Own Safety, Read Instruction Manual Before Operating This Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures. Always use common sense and good judgment.



Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

AWARNING

Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

Alerts the user to useful information about proper operation of the machine to avoid machine damage.

Safety Instructions for Machinery

AWARNING

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make your workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS.

You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are NOT approved safety glasses.



AWARNING

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

HAZARDOUS DUST. Dust created by machinery operations may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material. Always wear a NIOSH-approved respirator to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly BEFORE operating machine.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine *OFF* and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace BEFORE operating machine. For your own safety, DO NOT operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

EXPERIENCING DIFFICULTIES. If at any time you experience difficulties performing the intended operation, stop using the machine! Contact our Technical Support at (570) 546-9663.



Additional Safety for Buffers

AWARNING

Entanglement/amputation injuries can occur from being caught in moving parts or in-running pinch points. Buffer can easily remove skin. To minimize risk of getting hurt or killed, anyone operating machine MUST completely heed hazards and warnings below.

WORKPIECE SELECTION. Always inspect the condition of your workpiece. DO NOT buff pieces with loose knots, large splinters, sharp edges, and DO NOT buff knives, cable, chain or other potentially dangerous objects that may be grabbed by the buffing wheel and thrown at the operator.

EYE/FACE/LUNG PROTECTION. Always wear eye protection or a face shield and a heavy leather apron when operating the buffer. Wear a dust mask to protect your lungs from microscopic particulates. Particulates may cause allergies or long-term respiratory health problems.

MOUNTING TO BENCH/STAND. An unsecured buffer may become dangerously out of control during operation. Make sure buffer is FIRMLY secured to a bench/stand before use.

WORKPIECE CONTROL. If you cannot hold small workpieces securely, do not buff them with this machine. Secure them with clamps or similar jigs or use a different buffer.

AVOIDING ENTANGLEMENT. Becoming entangled in moving parts can cause severe injury or death. Keep all guards and covers in place; DO NOT wear loose clothing, gloves, or jewelry; and tie back long hair.

OPERATOR POSITION. Do not stand directly in front of the buffer when turning the machine *ON*, or when buffing. Do not buff material at the rear of the machine.

HAND/WHEEL CONTACT. Do not allow your hands to come into contact with the buffing wheel. Abrasive accessories can remove skin fast. Keep a firm grip on the workpiece and position your hands at a safe distance away when buffing. Avoid wearing gloves as they may get caught in the buffer and cause entanglement injuries.

CORRECT ACCESSORIES AND USE. The buffer is only designed for buffing and polishing. Never exceed the maximum speed listed on each buffing wheel.

WORKPIECE FEED. Allow the wheel to reach full speed, then slowly ease the workpiece into the buffing wheel, holding it in front of and slightly below the wheel center. Do not place the workpiece on the top or sides of the buffing wheel and do not place an edge or corner of the workpiece against the buffing wheel, or jam it against the wheel. The workpiece may eject toward the operator or be torn from the operator's hands, causing serious personal injury.

AWARNING

Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

ACAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.



SECTION 2: POWER SUPPLY

Availability

Before installing the machine, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this machine, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrician or qualified service personnel in accordance with all applicable codes and standards.



AWARNING

Electrocution, fire, shock, or equipment damage may occur if machine is not properly grounded and connected to power supply.

Full-Load Current Rating

The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating (T32253)..... 3 Amps Full-Load Current Rating (T32254)..... 6 Amps

The full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating.

If the machine is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the specified circuit requirements.

AWARNING

Serious injury could occur if you connect machine to power before completing setup process. DO NOT connect to power until instructed later in this manual.

110V Circuit Requirements

This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage	110V, 115V, 120V
Cycle	60 Hz
Phase	Single-Phase
Power Supply Circuit	15 Amps

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)

ACAUTION

For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: Circuit requirements in this manual apply to a dedicated circuit—where only one machine will be running on the circuit at a time. If machine will be connected to a shared circuit where multiple machines may be running at the same time, consult an electrician or qualified service personnel to ensure circuit is properly sized for safe operation.



Grounding & Plug Requirements

This machine MUST be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. DO NOT modify the provided plug!

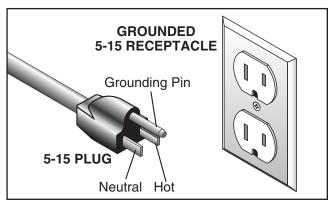
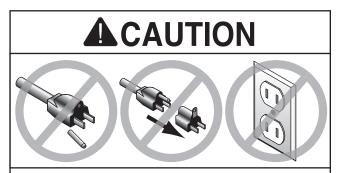


Figure 4. Typical 5-15 plug and receptacle.



SHOCK HAZARD!

Two-prong outlets do not meet the grounding requirements for this machine. Do not modify or use an adapter on the plug provided—if it will not fit the outlet, have a qualified electrician install the proper outlet with a verified ground.

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

Extension Cords

We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

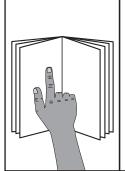
Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

Minimum Gauge Size (T32253).......16 AWG Minimum Gauge Size (T32254)......14 AWG Maximum Length (Shorter is Better)......50 ft.



SECTION 3: SETUP



AWARNING

This machine presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the machine!



AWARNING

Wear safety glasses during the entire setup process!

Unpacking

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. *If items are damaged, please call us immediately at (570) 546-9663.*

IMPORTANT: Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.

Needed for Setup

The following items are needed, but not included, for the setup/assembly of this machine.

Des	scription	Qty
•	Safety Glasses	1 Pair
•	Solvent/Cleaner	As Needed
•	Disposable Rags	
•	Disposable Gloves	
•	Open-End Wrench 7/8" (7	Γ32253 Only)2
•	Open-End Wrench 11/16"	(T32254 Only) 2

Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

If any non-proprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

Box	(1 (Figure 5)	Qty
A.	Buffer	1
B.	Loose Muslin Wheel 20-Ply	1
C.	Spiral Sewn Wheel 40-Ply	1
D.	Wheel Flanges	4
E.	Spindle Nuts	2
F.	Spacers	2

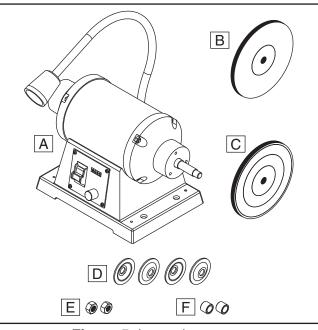


Figure 5. Loose inventory.

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.



Cleanup

The unpainted surfaces of your machine are coated with a heavy-duty rust preventative that prevents corrosion during shipment and storage. This rust preventative works extremely well, but it will take a little time to clean.

Be patient and do a thorough job cleaning your machine. The time you spend doing this now will give you a better appreciation for the proper care of your machine's unpainted surfaces.

There are many ways to remove this rust preventative, but the following steps work well in a wide variety of situations. Always follow the manufacturer's instructions with any cleaning product you use and make sure you work in a well-ventilated area to minimize exposure to toxic fumes.

Before cleaning, gather the following:

- Disposable rags
- Cleaner/degreaser (WD•40 works well)
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

Basic steps for removing rust preventative:

- 1. Put on safety glasses.
- 2. Coat the rust preventative with a liberal amount of cleaner/degreaser, then let it soak for 5–10 minutes.
- Wipe off the surfaces. If your cleaner/degreaser is effective, the rust preventative will wipe off easily. If you have a plastic paint scraper, scrape off as much as you can first, then wipe off the rest with the rag.
- Repeat Steps 2–3 as necessary until clean, then coat all unpainted surfaces with a quality metal protectant to prevent rust.

NOTICE

Avoid harsh solvents like acetone or brake parts cleaner that may damage painted surfaces. Always test on a small, inconspicuous location first.

Site Considerations

Workbench Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some workbenches may require additional reinforcement to support the weight of the machine and workpiece materials.

Placement Location

Consider anticipated workpiece sizes and additional space needed for auxiliary stands, work tables, or other machinery when establishing a location for this machine in the shop. Below is the minimum amount of space needed for the machine.

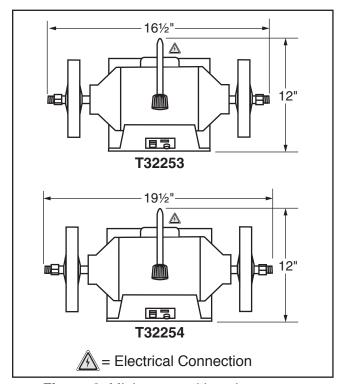
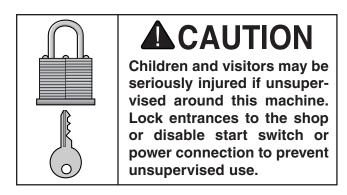


Figure 6. Minimum working clearances.





Bench Mounting

Number of Mounting Holes 4 Diameter of Mounting Hardware Needed .. ½"

The base of this machine has mounting holes that allow it to be fastened to a workbench or other mounting surface to prevent it from moving during operation and causing accidental injury or damage.

The strongest mounting option is a "Through Mount" (see example below) where holes are drilled all the way through the workbench—and hex bolts, washers, and hex nuts are used to secure the machine in place.

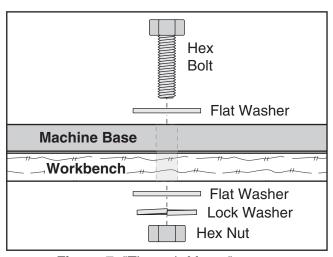


Figure 7. "Through Mount" setup.

Another option is a "direct mount" (see example below) where the machine is secured directly to the workbench with lag screws and washers.

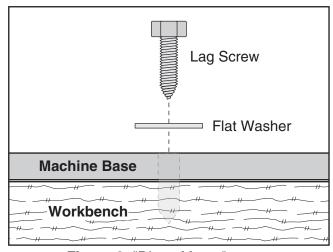


Figure 8. "Direct Mount" setup.

Assembly

The machine must be fully assembled before it can be operated. Before beginning the assembly process, refer to **Needed for Setup** and gather all listed items. To ensure the assembly process goes smoothly, first clean any parts that are covered or coated in heavy-duty rust preventative (if applicable).

There is a range of options when it comes to buffing and polishing wheels, but the Model T32253/T32254 comes with two muslin wheels: one loose 20-ply and one spiral sewn 40-ply.

To assemble machine:

- Place (1) spacer and wheel flange on each spindle shaft on each side of buffer (see Figure 9).
- 2. Install buffing wheels on each spindle shaft (see Figure 9).
- 3. Place (1) wheel flange on each shaft against wheel, and secure each wheel with (1) spindle nut (see **Figure 9**).

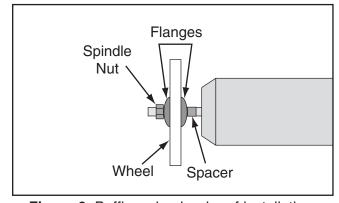


Figure 9. Buffing wheel order of installation.

Note: Left spindle shaft has left-hand threads so install spindle nut with left-hand threads counterclockwise onto shaft.

4. Once both spindle nuts are installed, use a wrench on each to tighten.



Test Run

Once assembly is complete, test run the machine to ensure it is properly connected to power and safety components are functioning correctly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from power, and fix the problem BEFORE operating the machine again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

The Test Run consists of verifying the following:

1) The motor powers up and runs correctly, and
2) the switch disabling key disables the switch properly.

AWARNING

Serious injury or death can result from using this machine BEFORE understanding its controls and related safety information. DO NOT operate, or allow others to operate, machine until the information is understood.

AWARNING

DO NOT start machine until all preceding setup instructions have been performed. Operating an improperly set up machine may result in malfunction or unexpected results that can lead to serious injury, death, or machine/property damage.

To test run machine:

- **1.** Clear all setup tools away from machine.
- 2. Turn variable-speed dial all the way counterclockwise and make sure ON/OFF switch is in OFF position (see **Figure 10**).

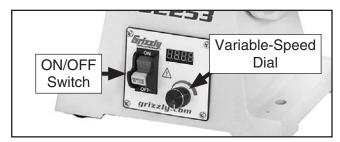


Figure 10. Control panel components.

- 3. Connect machine to power supply.
- **4.** Move ON/OFF switch up to turn machine *ON* (see **Figure 10**). Work light should illuminate.

Note: Motor will not turn **ON** unless variablespeed dial is turned all the way counterclockwise.

- **5.** Verify motor operation by slowly turning variable-speed dial clockwise. Rotate dial back and forth to test variable-speed function.
 - Motor should run smoothly and without unusual vibrations or noises.
- **6.** Turn variable-speed dial all the way counter-clockwise, then move ON/OFF switch down to turn motor *OFF*.
- **7.** Remove key from toggle switch, as shown in **Figure 11**.

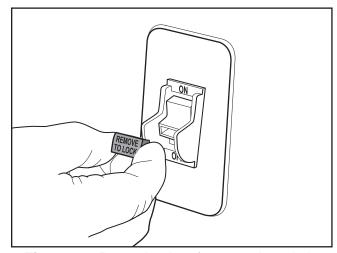


Figure 11. Removing key from toggle switch.

- **8.** Try to start machine with switch.
 - If the machine does not start, the toggle switch is working correctly. Congratulations! The Test Run is complete.
 - If the machine does start (with the toggle switch removed), immediately disconnect power to the machine. The toggle switch safety feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.

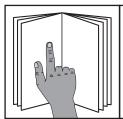


SECTION 4: OPERATIONS

Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the machine is used during operation, so the machine controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is **not** intended to be an instructional guide. To learn more about specific operations, read this entire manual, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

WARNING

Eye and face injuries and respiratory problems can occur while operating this tool. Wear personal protective equipment to reduce your risk from these hazards.







NOTICE

If you are not experienced with this type of machine, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/magazines or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

To complete a typical operation, the operator does the following:

- Cleans and examines workpiece to make sure it is suitable for buffing.
- **2.** Selects appropriate polishing compound and buffing wheel.
- **3.** Ensures that variable-speed dial is turned all the way counterclockwise and ON/OFF switch is in OFF position.
- **4.** Connects buffer to power.
- 5. Puts on personal protective equipment.
- Stands aside, starts machine, adjusts speed, then applies polishing compound and gradually feeds workpiece into wheel.
- **7.** Stops machine once buffing operation is complete.



Disabling Switch

The switch can be disabled by removing the key, as shown below. Disabling the switch in this manner can prevent unauthorized operation of the machine, which is important if it is not kept inside an access-restricted building or in a location where children may be present.

IMPORTANT: Disabling the switch only restricts its function. It is not a substitute for disconnecting machine from power when adjusting or servicing.

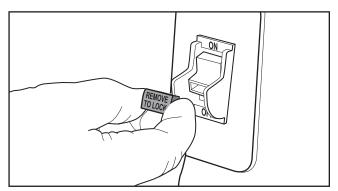


Figure 12. Disabling switch by removing key.

AWARNING

Children or untrained people can be seriously injured by this machine. This risk increases with unsupervised operation. To help prevent unsupervised operation, always disable switch before leaving machine unattended. Make sure to place key in a well-hidden or secure location!

Buffing

Below are some quick tips for getting the most out of your buffing wheels. Remember, there is no substitute for experience. Learning how to hold the workpiece, how much pressure to apply, how to move the workpiece against the wheel, and how much compound to use requires a certain amount of trial-and-error.

- Thoroughly clean all parts you plan to buff.
 Dirt, oil, rust, paint, or other film must be removed chemically or with water. Make sure to dry off parts with a rag after cleaning.
- Apply buffing compounds in small amounts at a time. Apply paste-type compounds with a wand or directly to the part. For wax-based polishing stick-type compounds, press compound on the wheel for a couple of seconds while machine is running. Avoid using too much compound.
- Put your workpiece under wheel when you are loading compound on the buffing wheel.
 This way, you will catch any compound that would normally be wasted on floor.
- To begin buffing, slowly feed workpiece into buffing wheel workpiece contact zone (see Figure 13). Contacting workpiece on areas outside of the correct area may flip workpiece out of your hands. Hold workpiece tightly at all times while buffing. Placing one hand near contact point will give you better control.

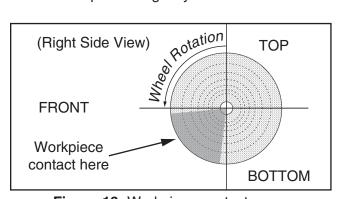


Figure 13. Workpiece contact zone.



- Keep buffing wheels raked out before each use and when buildup gets heavy during use. Raking means to clean buffing wheels with a wheel rake to remove built-up compounds and metal particles. ALWAYS use light pressure when raking wheels!
- Do not mix two different compounds on same wheel. For best results, use a separate wheel for each compound.
- Always use an upward stroke with heavy to moderate pressure for cutting. Use a downward stroke with light pressure for polishing (see Figure 14).

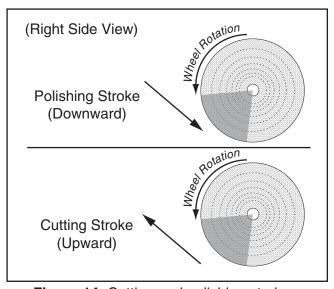


Figure 14. Cutting and polishing strokes.

Wear safety equipment when buffing. If polisher forces workpiece out of your hand, be prepared for it to come flying at you! Wear safety glasses or a face shield and a heavy leather apron. Also, wear a dust mask to protect your lungs from microscopic particulate that will be flying off wheel.

NOTICE

Use caution when polishing plated metals; there is a chance that thinly-plated materials could be damaged. Light pressure is all that is needed for quality work.

Selecting Buffing Wheels

Buffing wheels are available for most types of metals, some woods, and for different stages in the buffing process. Below are pictures and descriptions of common wheel types.

ACAUTION

Only use buffing wheels with a wheel speed rating higher than RPM buffer is capable of.

Loose Domet

Full sheets of domet flannel without any stitch webbing for final polishing. Designed specifically for polishing guitars, drums, and other instruments made of wood.



Loose Muslin

Soft feather-edged muslin stitched together near the center leaves the outer edge to provide a wide angle, fine polishing surface. Perfect for polishing stainless steel, chrome, gold or silver.



Airway Hard

Made of 100% cotton sheets that are treated to stiffen the material. Pleats in the material help hold compound. These are great for rough cutting plastics and initial polishing a wide variety of metals.





Airway Soft

Made of 100% cotton sheets and held together with a steel retainer. Pleats in the material help hold compound. These wheels are great for polishing soft metals and plastics.



Laminated Sisal

Designed for rough cutting, sisal works well with various steels, copper, aluminum, and brass to remove scratches and prepare the piece for polishing.



Spiral Sewn

Consist of layers of 100% unbleached cotton sheeting that are spiral sewn ½" apart. Works well for initial polish on brass, stainless steel, aluminum, bronze and cast iron.



Buffing Wheel Sequence Key

	Plastics Soft Metals		Thin Plating Gold Silver		Chrome & Nickel Plate		Copper Brass Aluminum		Iron Steel Stainless Steel						
Buff Style	R	F	Р	R	F	Р	R	F	Р	R	F	Р	R	F	Р
Loose Muslin-Soft			Х			Х			Х			Χ	П		Х
Loose Muslin-Hard											Х		Х	Х	
Airway Hard	Х										Х		Х		
Airway Soft			Х			Х			Х			Χ			
Laminated Sisal										Х			Х		
Spiral Sewn		Х						Χ			Х			Χ	

Buffing Sequence: R = Rough F= Final Cut, Initial Polish P = Final Polish

Installing/Removing Buffing Wheel

The spindle shafts protruding from either side of the motor make it easy to swap out different buffing wheels for different projects. Install the muslin wheels that came with your buffer or one appropriate for your operation. The T32253 accepts wheels with a 1/2" bore while the T32254 requires a 5/8" bore.

Tools Needed	Qty
Open-End Wrenches 7/8" (T32253 Only) 2
Open-End Wrenches 11/16"	(T32254 Only) 2

To install/remove buffing wheel:

- DISCONNECT MACHINE FROM POWER!
- 2. Remove spindle nut and outer flange from each spindle shaft (see **Figure 15**). DO NOT remove inner flange or spacer.

Note: Left spindle shaft has left-hand threads so hex nut threads counterclockwise onto shaft.

 Remove old buffing wheels (if installed) and install desired buffing wheels between inner and outer wheel flanges (see Figure 15).

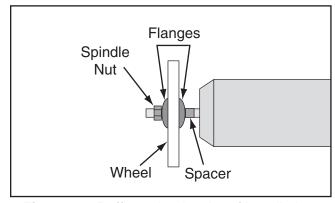


Figure 15. Buffing wheel order of installation.

4. Secure wheels and flanges with spindle nuts removed in **Step 2**.



Selecting Buffing Compounds

Most colors of abrasives have similar applications, but always check with the manufacturer of your particular compound.

Grizzly offers the following compounds:

Red Rouge — Made for fine polishing on brass and gold. Provides an excellent shine when used with the loose muslin buffing wheel.

Green (Extra Fine) — Great for extra-fine polishing on most metals to bring out that mirror finish. Works best with loose muslin and spiral sewn buffing wheels.

White — Great for ivory, plastic and resins when used successively with the soft spiral sewn and soft airway buffing wheels.

Black — Designed to be used with sisal and airway hard buffing wheels, this compound is perfect for the initial rough cut on stainless steel and iron.

Tripoli — A true middle-of-the-road abrasive, Tripoli provides an excellent medium cut for brass, aluminum and zinc alloy.

Green (Fine) — Slightly more abrasive than the extra-fine green, this green compound is great for a medium-to-fine polish with most softer metals.

Buffing Compound Sequence Key

Compound		astic Soft Ietal		P	Thin latin Gold Silve	ig I	&	hror Nicl	kel	E	opp Bras Imin	s	Sta	Iron Stee ainle Stee	el ess
Туре	R	F	Р	R	F	Р	R	F	Р	R	F	Р	R	F	Р
Tripoli	Х							Х		Х					
Dark Rouge						Х			Χ		Х	Х			Х
White Rouge		Х	Х												
Black Rouge													Х	Χ	

Buffing Sequence: R = Rough F= Final Cut, Initial Polish P = Final Polish

Loading Compound

Select a buffing compound and buffing wheel that is suitable for the workpiece and each sequence of the buffing or polishing operation.

To load compound on wheels:

- Select buffing wheel suitable for workpiece (refer to Selecting Buffing Wheels on Page 20). Follow directions on Page 21 to install wheel.
- Select buffing compound suitable to material (refer to Selecting Buffing Compounds and Buffing Compound Sequence Key).

Note: Make sure buffing wheel is free of any compound used in prior buffing operation. Clean with a buffing wheel rake if necessary (see **Cleaning** on **Page 24**).

- **3.** Put on safety glasses, face shield, and respirator, then connect machine to power.
- **4.** Stand to side of buffing wheel and turn machine *ON*. Allow wheel to reach full speed.
- 5. Apply buffing compound to rotating face of wheel, as shown in Figure 16. Only hold compound to wheel for 2–5 seconds. The polisher is now ready for buffing/polishing.

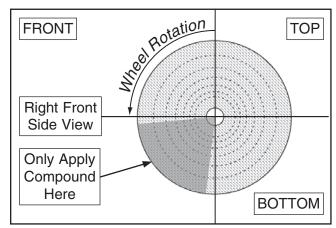


Figure 16. Location where buffing compound should contact wheel.

6. Turn machine *OFF* when operation is complete.



SECTION 5: ACCESSORIES

AWARNING

Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

G2582—Buffing Compound Set

Set includes one 5 oz. bar of each of the following compounds: Black Emery Cake, Tripoli Brown rouge, White Rouge & Red Rouge. Low cost – must have! Due to their nature, colors may vary.

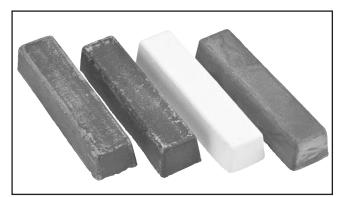


Figure 17. Model G2582 Buffing Compound Set.

H0813—Menzerna Yellow Compound

Fine-polishing compound for an excellent highgloss finish on all wood coatings and plastics. Designed to polish at a low-working temperature to prevent hazing of lacquer or plastic burning. Use with a Domet flannel buffing wheel.

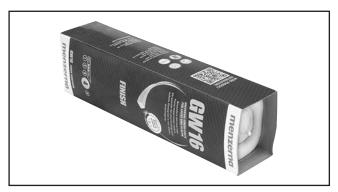


Figure 18. Model H0813 Menzerna Yellow Fine Polishing Compound.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

T32253 Buffing Wheels

MODEL	TYPE	TYPE SIZE	
D2512	Soft Muslin	5" x 40 Ply x ½"	5,000
D2513	Soft Muslin	6" x 40 Ply x ½"	5,000
D2514	Hard Muslin	6" x 50 Ply x ½"	5,000
D2515	Airway Hard	6" x 12 Ply x ½"	3,500
D2518	Airway Soft	6" x 12 Ply x ½"	3,500
D2506	Spiral Sewn	5" x 60 Ply x ½"	5,000
D2498	Spiral Sewn	6" x 30 Ply x ½"	4,000
D2507	Spiral Sewn	6" x 60 Ply x ½"	4,000

T32254 Buffing Wheels

MODEL	TYPE	SIZE	MAX RPM
D3188	Soft Muslin	5" x 40 Ply x 5%"	5,000
D3190	Soft Muslin	8" x 40 Ply x 5%"	4,000
D3191	Hard Muslin	6" x 50 Ply x %"	4,000
D3192	Hard Muslin	8" x 50 Ply x %"	4,000
D3193	Airway Hard	6" x 12 Ply x %"	3,500
D3194	Airway Soft	6" x 12 Ply x %"	3,500
D3177	Spiral Sewn	4" x 30 Ply x 5%"	5,000
D3184 Spiral Sewn		6" x 60 Ply x 5/8"	4,000
D3182	Spiral Sewn	8" x 40 Ply x %"	4,000

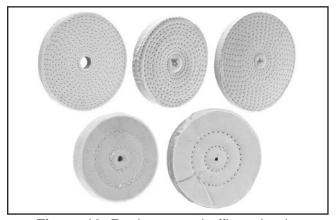
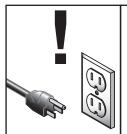


Figure 19. Replacement buffing wheels.

order online at www.grizzly.com or call 1-800-523-4777



SECTION 6: MAINTENANCE



AWARNING

To reduce risk of shock or accidental startup, always disconnect machine from power before adjustments, maintenance, or service.

Schedule

For optimum performance from this machine, this maintenance schedule must be strictly followed.

Ongoing

To minimize your risk of injury and maintain proper machine operation, shut down the machine immediately if you ever observe any of the items below, and fix the problem before continuing operations:

- Loose mounting bolts.
- Damaged spindle shaft.
- Damaged buffing wheels.
- Worn or damaged wires.
- Any other unsafe condition.

Weekly Maintenance

- Inspect cord for wear/damage.
- Inspect ON/OFF switch for wear/damage.
- Inspect variable-speed dial for wear/damage.

Monthly Check

Clean/vacuum dust buildup off motor.

Lubrication

The bearings inside the Model T32253/T32254 are sealed and permanently lubricated. Simply leave them alone unless they need replacing.

Cleaning

Cleaning the Model T32253/T32254 is relatively easy. Vacuum excess debris and wipe off the remaining dust with a dry cloth. Wipe down spindle with a non-staining lubricant after cleaning.

To clean buffing wheels, use a buffing wheel rake to remove dried compound. Guide the rake across the spinning buffing wheel using light pressure, as shown in **Figure 20**.



Figure 20. Removing compound from buffing wheel with buffing wheel rake.

See below for some rake accessories available through Grizzly.

H4383—Buffing Wheel Rake with Handle H4384—Replacement Rake

Great for removing dried compound from buffing wheels. Simply guide the rake across the spinning buff.

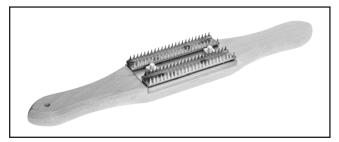


Figure 21. Buffing wheel rake with handle.



SECTION 7: SERVICE

Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Troubleshooting

Motor & Electrical

Symptom	Possible Cause	Possible Solution
Machine does	Switch disabling key removed.	Install switch disabling key.
not start, or	2. Blown fuse.	2. Replace fuse/ensure no shorts.
power supply	3. Incorrect power supply voltage or circuit size.	3. Ensure correct power supply voltage and circuit size.
breaker immediately	4. Power supply circuit breaker tripped or fuse	4. Ensure circuit is free of shorts. Reset circuit breaker or
trips after	blown.	replace fuse.
startup.	5. Wiring broken, disconnected, or corroded.	5. Fix broken wires or disconnected/corroded
		connections.
	6. ON/OFF switch at fault.	6. Replace switch.
	7. Circuit boards at fault.	7. Inspect/replace if at fault.
	8. Motor or motor bearings at fault.	8. Replace motor.
Machine	Machine undersized for task.	Use new buffing wheel; reduce feed rate.
stalls or is	2. Buffing wheel too large/wide or exceeds	2. Replace with smaller wheel or reduce wheel width.
underpowered.	recommended wheel rating.	
	3. Motor overheated.	3. Clean motor, let cool, and reduce workload.
	4. Circuit board at fault.	4. Test/replace circuit board.
	5. Motor or motor bearings at fault.	5. Replace motor.
Machine has	Buffing wheel loose or worn.	Re-install (Page 21) or replace buffing wheel.
vibration or	2. Motor or component loose.	2. Replace damaged/missing fasteners; tighten if loose.
noisy operation.	3. Incorrectly mounted to workbench.	3. Adjust feet, shim, or tighten mounting hardware.
	4. Motor shaft bent.	4. Test with dial indicator and replace motor.
	5. Motor or motor bearings at fault.	5. Test by rotating shaft; rotational grinding/loose shaft
		requires bearing replacement.

Operation

Symptom	Possible Cause	Possible Solution
Machine slows	Operator using too much pressure.	Use less pressure when buffing.
when operating.	2. RPM too low.	2. Increase buffing wheel RPM.
Poor results from buffing/ polishing	Workpiece contains residue or contaminants.	Dirt, oil, rust, paint, or other film must be removed chemically or with water. Dry parts before buffing.
operation.	2. Contaminated buffing compounds on wheel.	DO NOT mix different compounds on same wheel. Use separate wheel for each compound. Remove compound with buffing wheel rake (Page 24).
	3. Wrong buffing compound for material.	3. Use correct buffing compound (Page 22).
	4. Workpiece not held firmly.	4. Use a holding device to firmly secure workpiece.
	Incorrect stroke for buffing compound/wheel/ material.	Use upward stroke with heavy pressure for cutting; downward stroke with light pressure for polishing.
	6. Incorrect type of buffing wheel for material.	6. Use correct buffing wheel (Page 20).



SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.

▲WARNING Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved aftermarket parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.

CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

NOTICE COLOR KEY BLACK I **BLUE** LIGHT The photos and diagrams YELLOW included in this section are YELLOW WHITE = **BROWN BLUE** GREEN best viewed in color. You WHITE RED GREEN **GRAY** (Rb) can view these pages in BLACK TUR-QUOISE color at www.grizzly.com. RED **ORANGE** PINK



T32253 Wiring Diagram

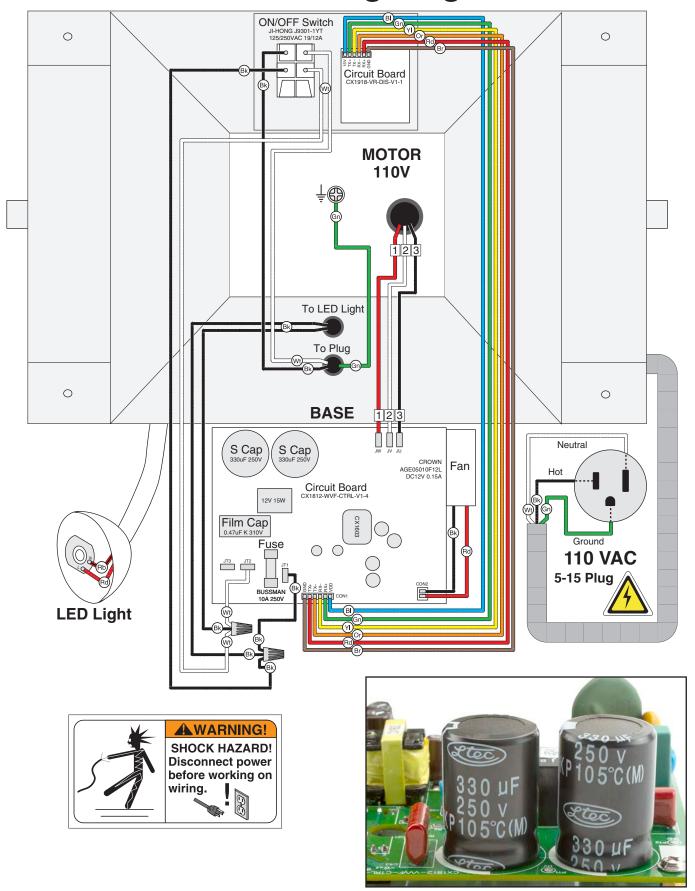


Figure 22. T32253 start capacitors.



T32254 Wiring Diagram

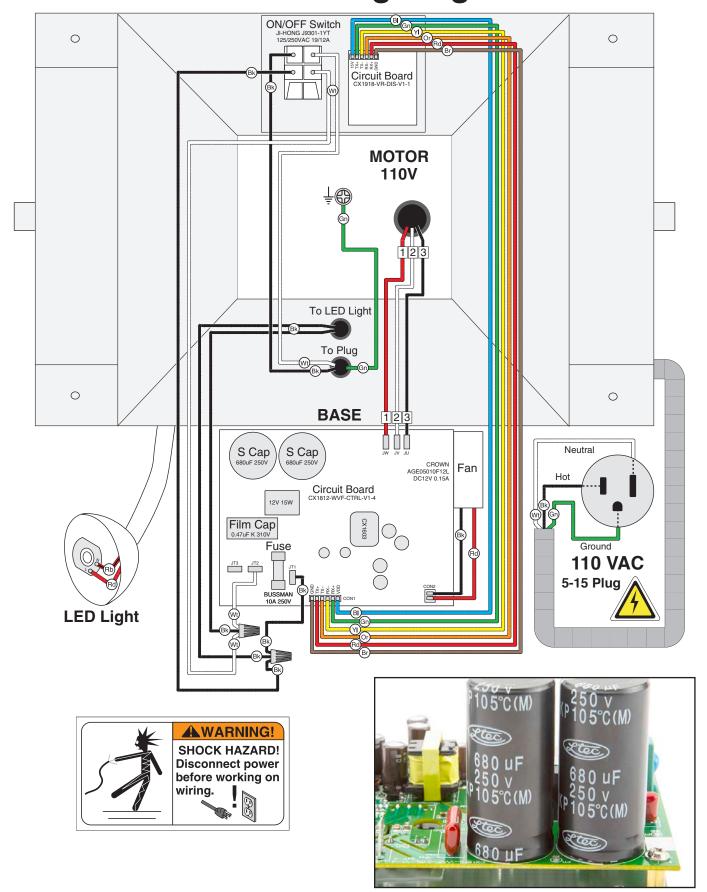


Figure 23. T32254 start capacitors.

Electrical Component Photos



Figure 24. T32253 switch wiring.



Figure 25. Control unit wiring.



Figure 26. T32254 switch wiring.



Figure 27. LED wiring.

SECTION 9: PARTS

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call (800) 523-4777 or visit www.grizzly.com/parts to check for availability.

Main



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T32253 Parts List

REF	PART #	DESCRIPTION
1	PT32253001	BASE
2	PT32253002	CORD PLATE
3	PT32253003	POWER CORD 18G 3W 72" 5-15P
4	PT32253004	STRAIN RELIEF TYPE-1 1/2
5	PT32253005	FLANGE SCREW 10-24 X 1/4
6	PT32253006	WORK LIGHT ASSEMBLY
7	PT32253007	EXT TOOTH WASHER 1/2
8	PT32253008	LOCK WASHER 1/2
9	PT32253009	HEX NUT 1/2-18
10	PT32253010	CONTROL PANEL UNIT
11	PT32253011	PHLP HD SCR M47 X 6
12	PT32253012	BASE PLATE
13	PT32253013	RUBBER FOOT
14	PT32253014	TAP SCREW M3.5 X 10

REF	PART#	DESCRIPTION
15	PT32253015	FLANGE SCREW 10-24 X 3/8
16	PT32253016	MOTOR 1/2HP 110V 1-PH
17	PT32253017	PHLP HD SCR M6-1 X 16
18	PT32253018	PHLP HD SCR M58 X 6
19	PT32253019	EXT TOOTH WASHER 5MM
20	PT32253020	SPACER 13 X 19 X 15
21	PT32253021	WHEEL FLANGE
22	PT32253022	BUFFING WHEEL 6" X 1/4" X 1/2" 20-PLY
23	PT32253023	BUFFING WHEEL 6" X 1/4" X 1/2" 40-PLY
24	PT32253024	HEX NUT 1/2-13 LH
25	PT32253025	HEX NUT 1/2-13
26	PT32253026	JUNCTION BOX
28	PT32253028	ON/OFF SWITCH JI-HONG J9301-1YT
29	PT32253029	VARIABLE-SPEED DIAL

T32254 Parts List

REF	PART #	DESCRIPTION
1	PT32254001	BASE
2	PT32254002	CORD PLATE
3	PT32254003	POWER CORD 16G 3W 72" 5-15P
4	PT32254004	STRAIN RELIEF TYPE-1 1/2
5	PT32254005	FLANGE SCREW 10-24 X 1/4
6	PT32254006	WORK LIGHT ASSEMBLY
7	PT32254007	EXT TOOTH WASHER 1/2
8	PT32254008	LOCK WASHER 1/2
9	PT32254009	HEX NUT 1/2-18
10	PT32254010	CONTROL PANEL UNIT
11	PT32254011	PHLP HD SCR M47 X 6
12	PT32254012	BASE PLATE
13	PT32254013	RUBBER FOOT
14	PT32254014	TAP SCREW M3.5 X 10

REF	PART#	DESCRIPTION
15	PT32254015	FLANGE SCREW 10-24 X 3/8
16	PT32254016	MOTOR 1HP 110V 1-PH
17	PT32254017	PHLP HD SCR M6-1 X 16
18	PT32254018	PLHP HD SCR M58 X 6
19	PT32254019	EXT TOOTH WASHER 5MM
20	PT32254020	SPACER 16 X 22 X 16
21	PT32254021	WHEEL FLANGE
22	PT32254022	BUFFING WHEEL 8" X 1/4" X 5/8" 20-PLY
23	PT32254023	BUFFING WHEEL 8" X 1/4" X 5/8" 40-PLY
24	PT32254024	HEX NUT 5/8-11 LH
25	PT32254025	HEX NUT 5/8-11
26	PT32254026	JUNCTION BOX
28	PT32253028	ON/OFF SWITCH JI-HONG J9301-1YT
29	PT32253029	VARIABLE-SPEED DIAL

Labels & Cosmetics



REF	PART #	DESCRIPTION
101	PT32253101	MACHINE ID LABEL (T32253)
101	PT32254101	MACHINE ID LABEL (T32254)
102	PT32253102	TOUCH-UP PAINT, GRIZZLY BEIGE

Scan QR code to visit our Parts Store.

REF	PART #	DESCRIPTION
103	PT32253103	CONTROL PANEL LABEL
104	PT32253104	MODEL NUMBER LABEL (T32253)
104	PT32254104	MODEL NUMBER LABEL (T32254)

AWARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine MUST replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.



WARRANTY & RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

In the event you need to use this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

To take advantage of this warranty, you must register it at https://www.grizzly.com/secureforms/warranty-card, or you can scan the QR code below to be automatically directed to our warranty registration page. Enter all applicable information for the product.





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